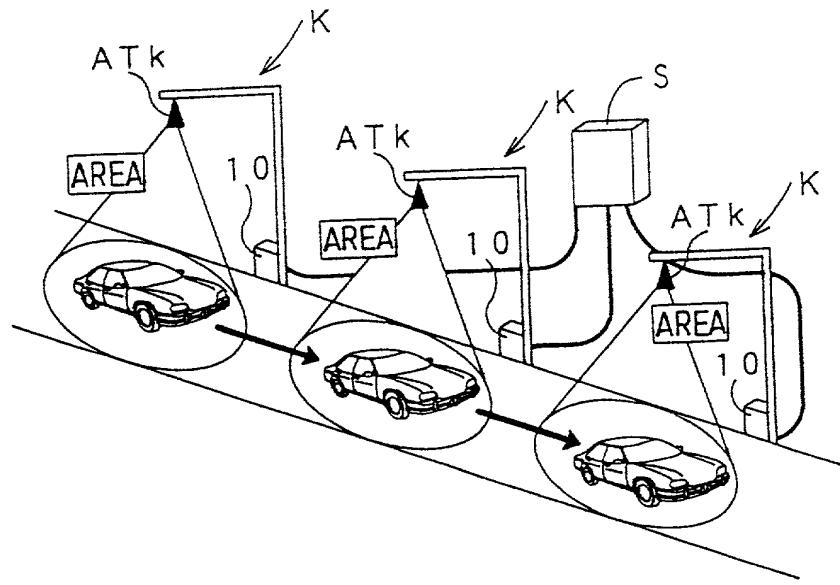
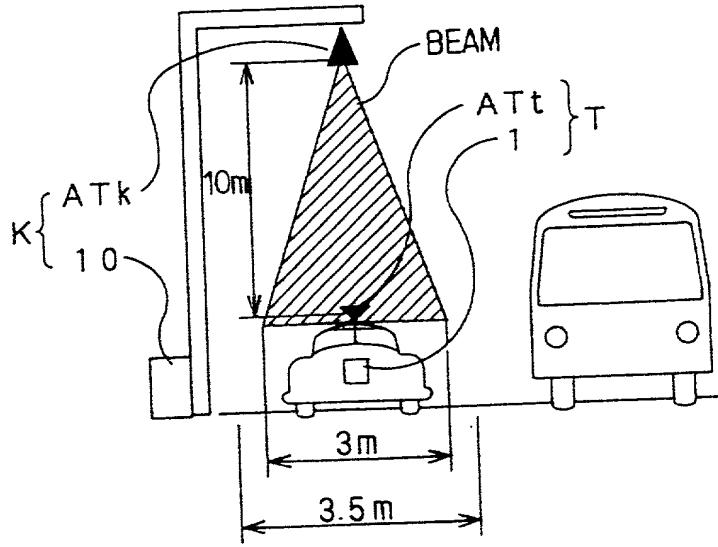


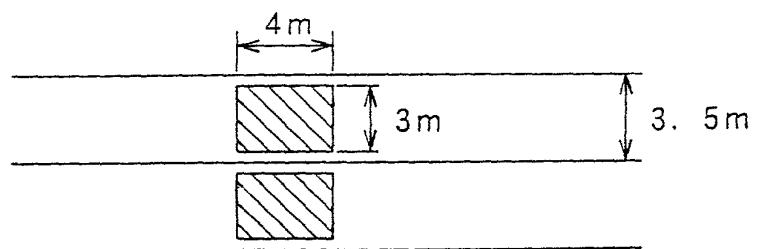
# FIG. 1A



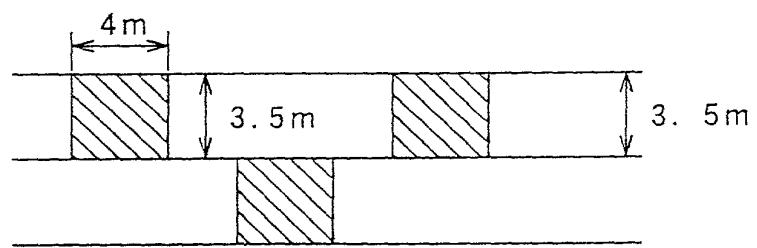
# FIG. 1B



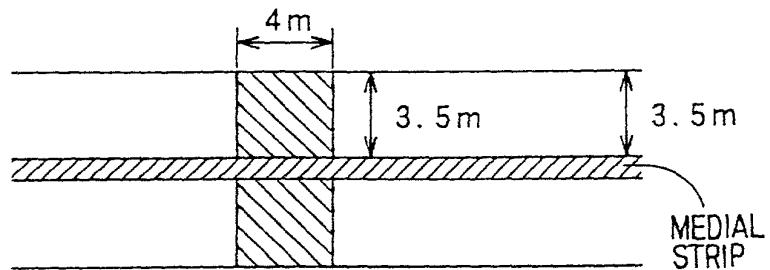
**FIG. 2A**

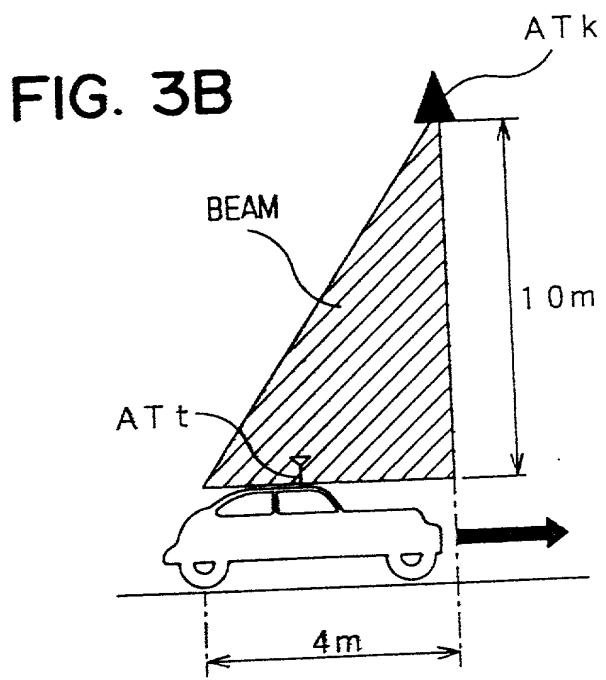
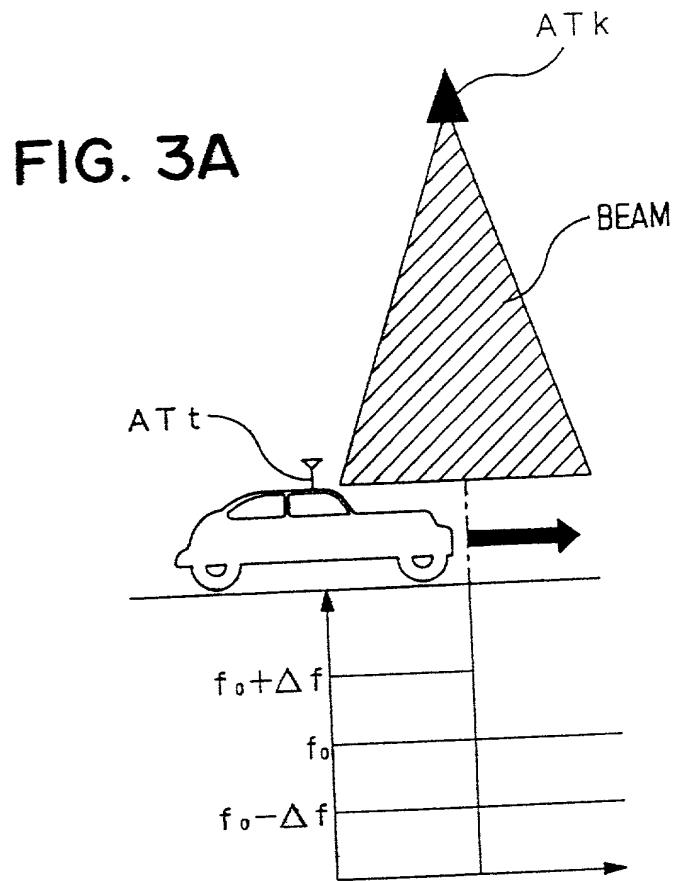


**FIG. 2B**

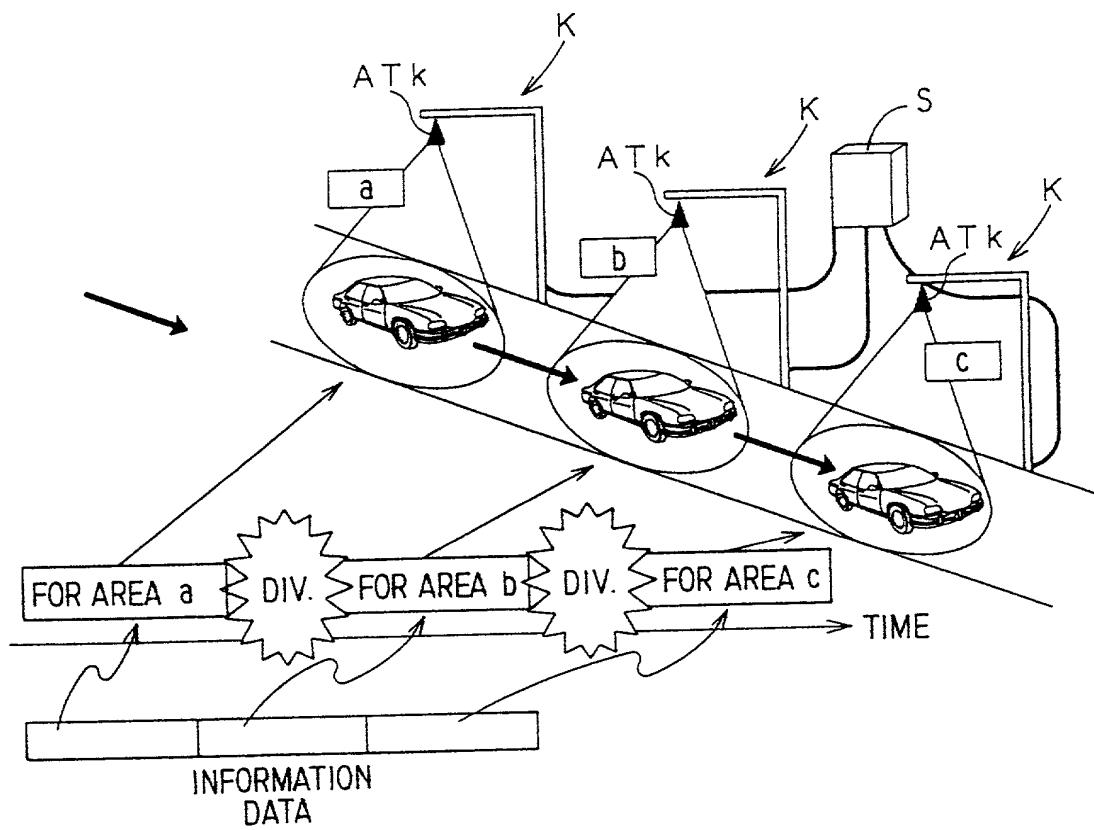


**FIG. 2C**

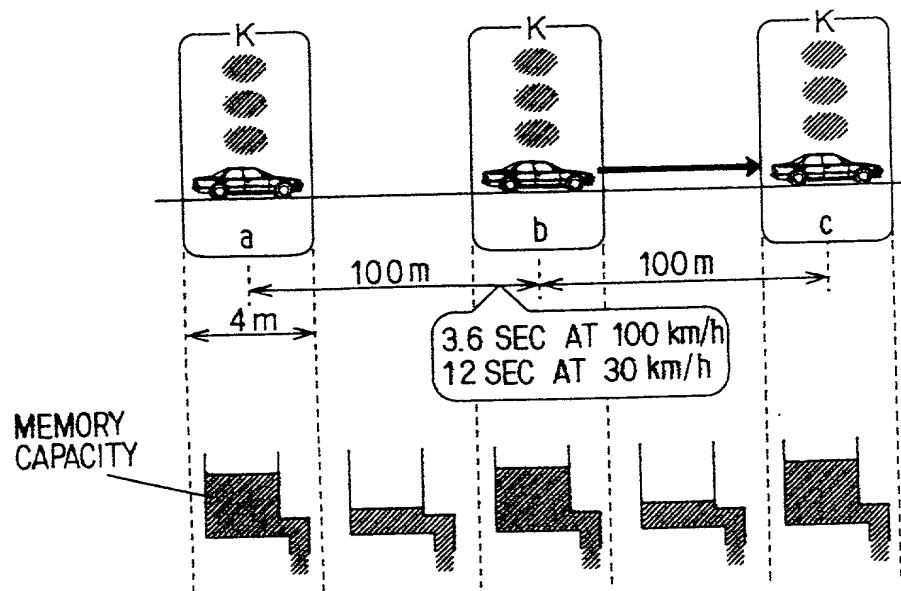




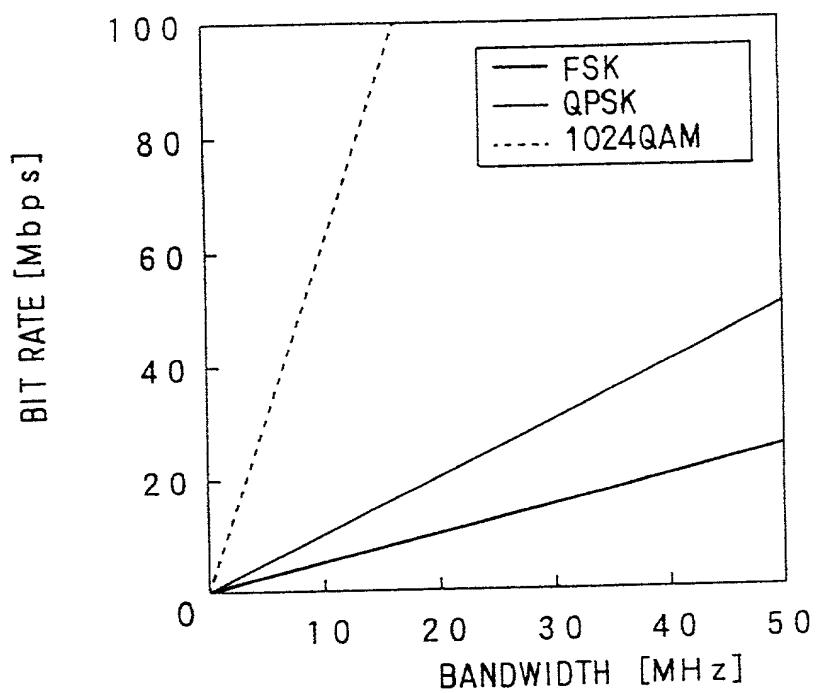
**FIG. 4A**



**FIG. 4B**



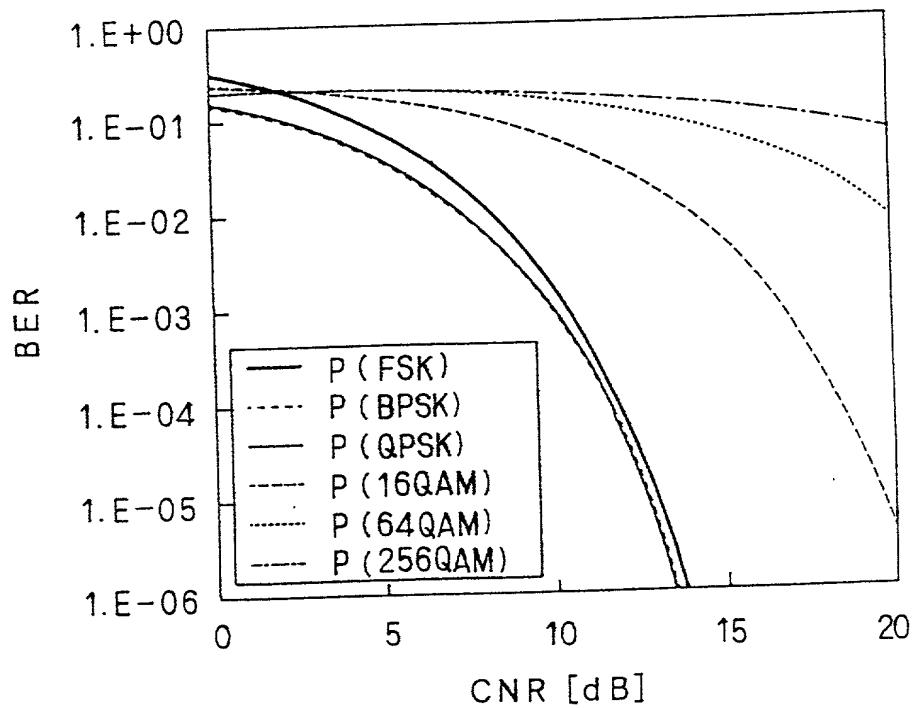
**FIG. 5**



**FIG. 6A**

MODULATION	AVERAGE BER
FSK	$P_{FSK} = \operatorname{erfc} \left( \frac{K_0}{\sqrt{2}} \right)$
BPSK	$P_{BPSK} = \frac{1}{2} \operatorname{erfc} \left( \frac{K_0}{\sqrt{2}} \right)$
QPSK	$P_{QPSK} = \frac{1}{2} \operatorname{erfc} \left( \frac{K_0}{\sqrt{2}} \right)$
16QAM	$P_{16QAM} = \frac{3}{8} \operatorname{erfc} \left( \frac{K_0}{\sqrt{10}} \right)$
64QAM	$P_{64QAM} = \frac{7}{24} \operatorname{erfc} \left( \frac{K_0}{\sqrt{42}} \right)$
256QAM	$P_{256QAM} = \frac{15}{64} \operatorname{erfc} \left( \frac{K_0}{\sqrt{170}} \right)$

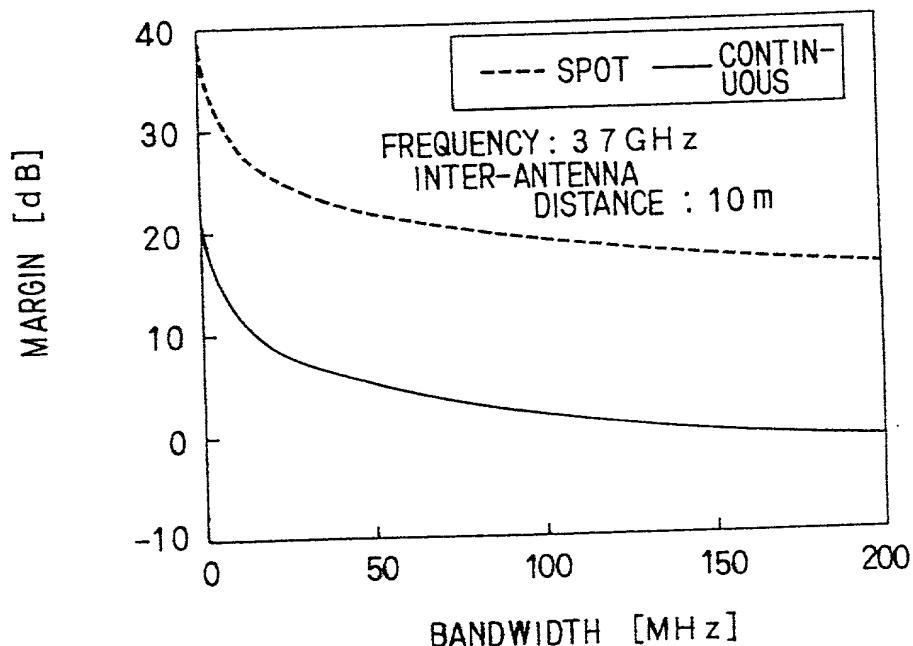
**FIG. 6B**



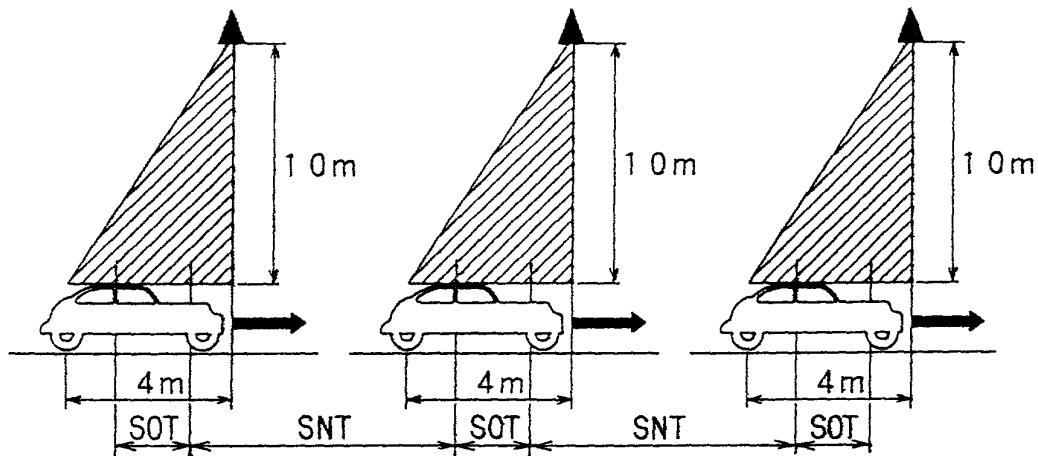
## FIG. 7A

PARAMETER	VALUE	
	SPOT	CONTINUOUS
POWER	10 dBm	
ANTENNA GAIN	20 dB	3 dB
DISTANCE	10 m	
FREQUENCY	37 GHz	
MODULATION	FSK, BPSK, QPSK	
AVERAGE BER	$1 \times 10^{-6}$	
RECEIVER NOISE	10 dB	
TEMPERATURE	300 K	
BANDWIDTH	1 - 200 MHz	

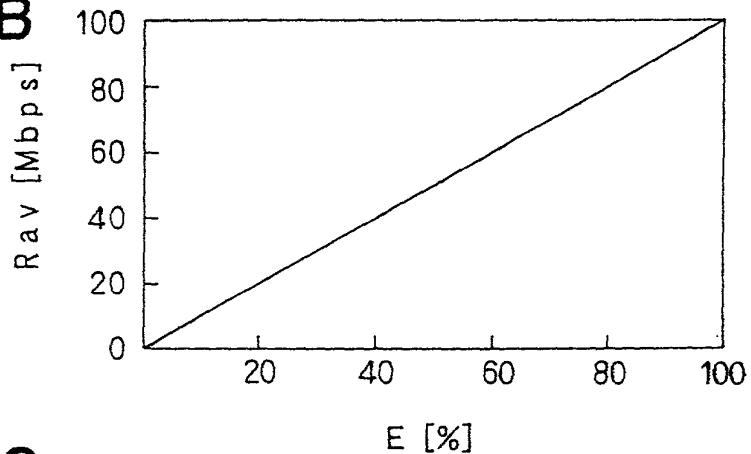
## FIG. 7B



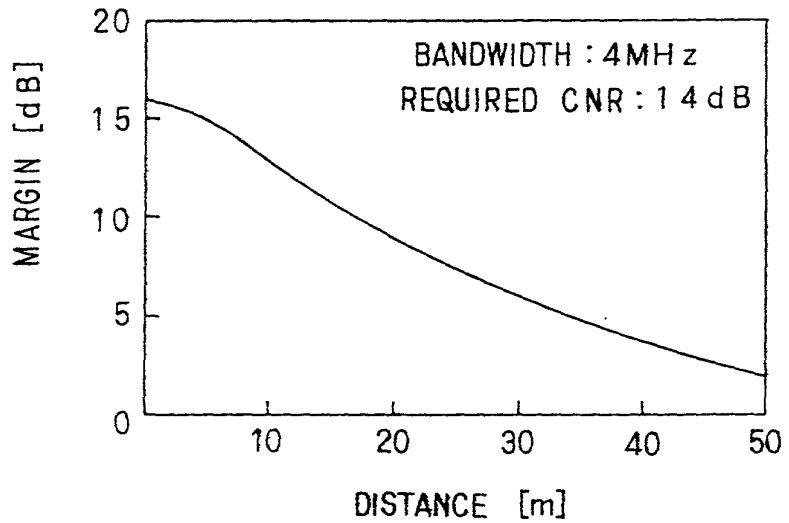
**FIG. 8A**



**FIG. 8B**

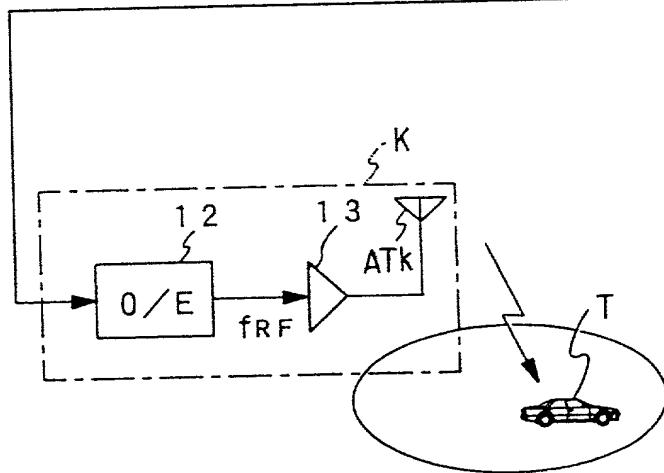
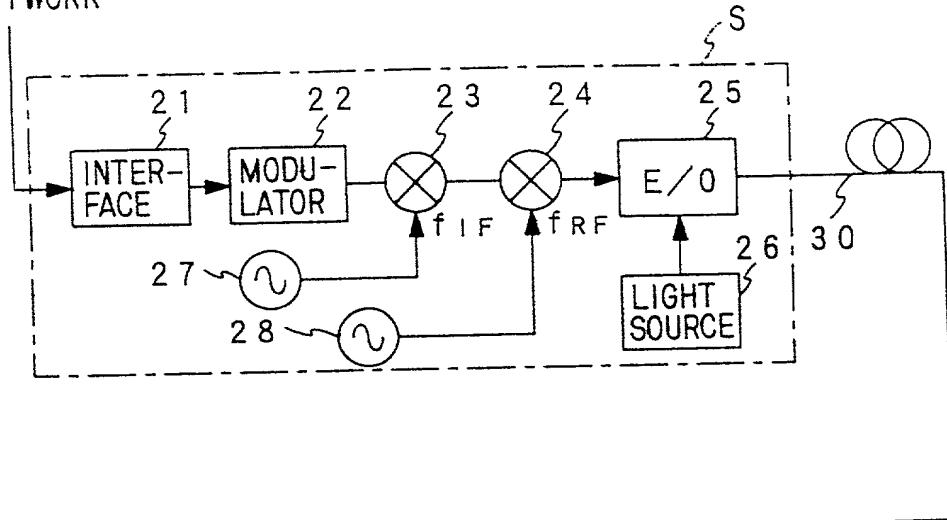


**FIG. 8C**

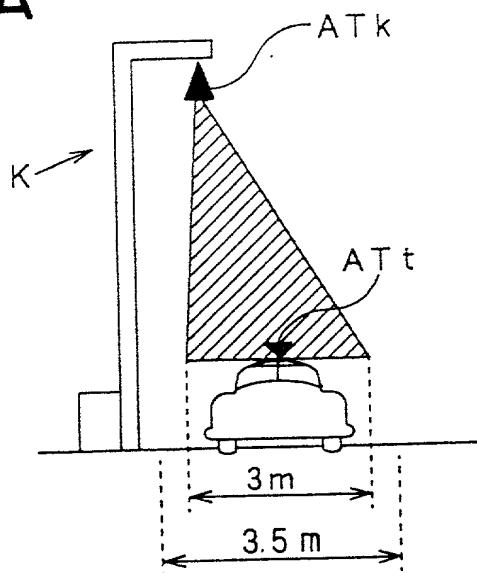


**FIG. 9**

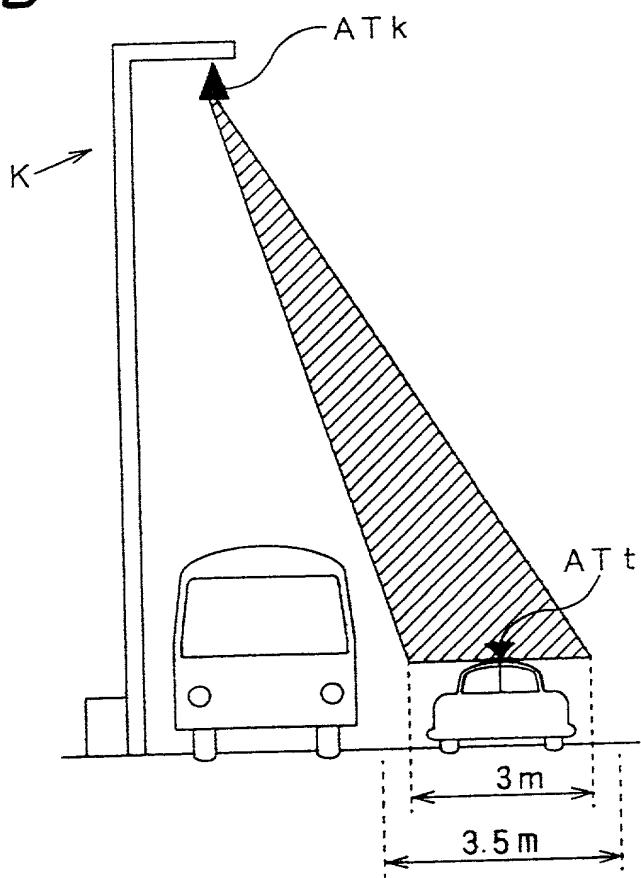
EXTERNAL  
NETWORK



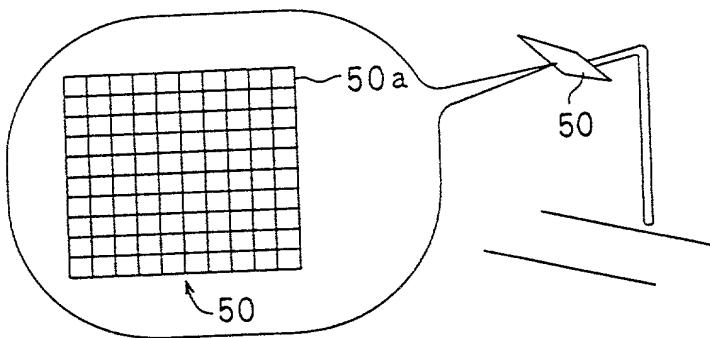
**FIG. IOA**



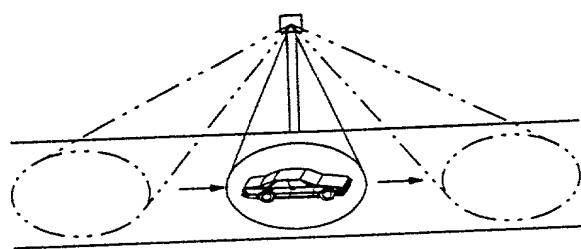
**FIG. IOB**



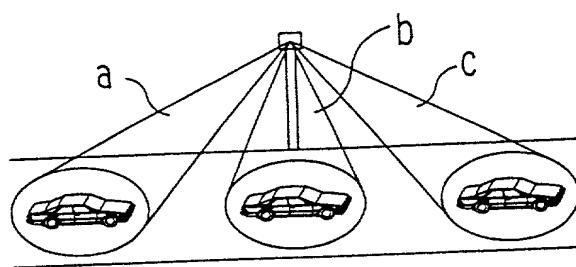
**FIG. II A**



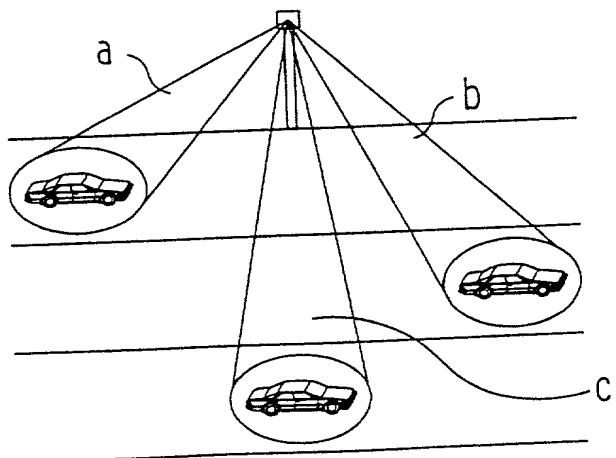
**FIG. II B**



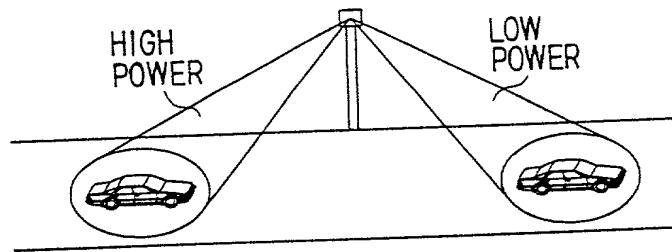
**FIG. II C**



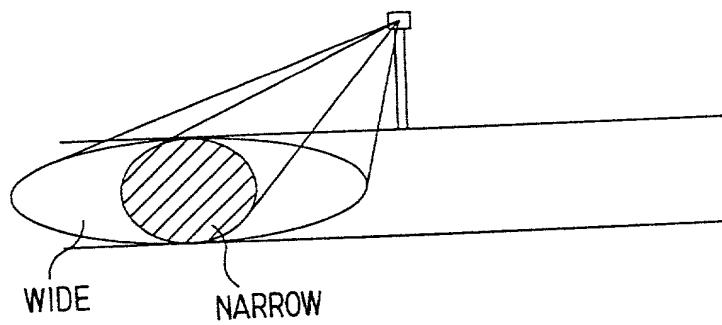
**FIG. II D**



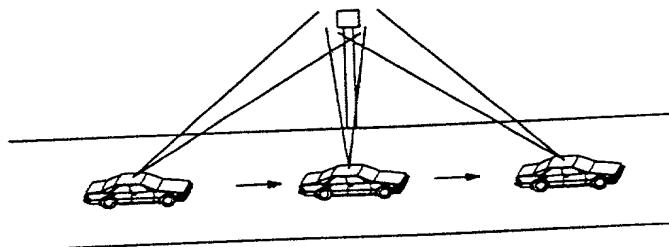
**FIG. I2A**



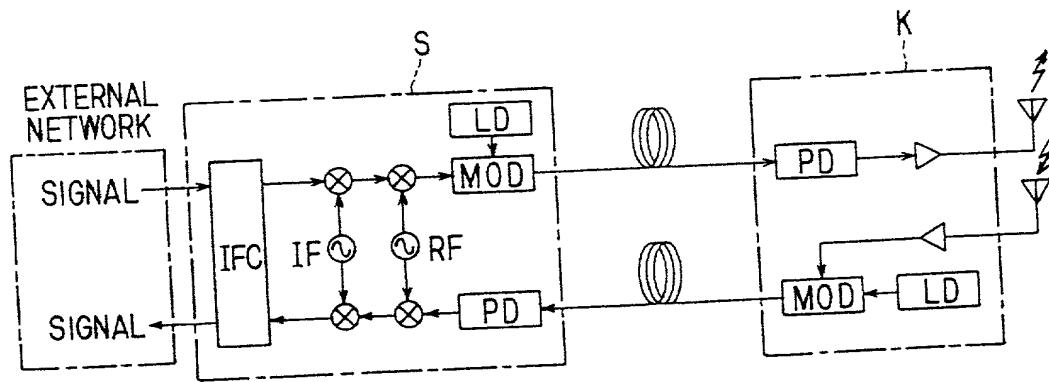
**FIG. I2B**



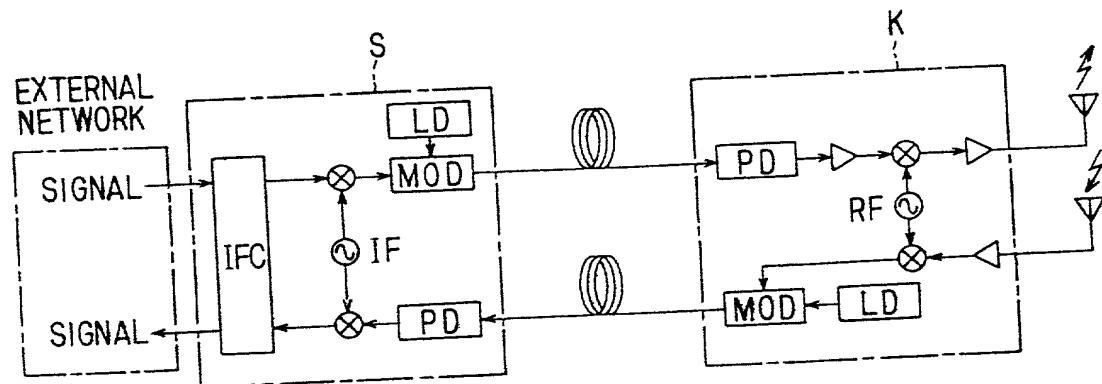
**FIG. I2C**



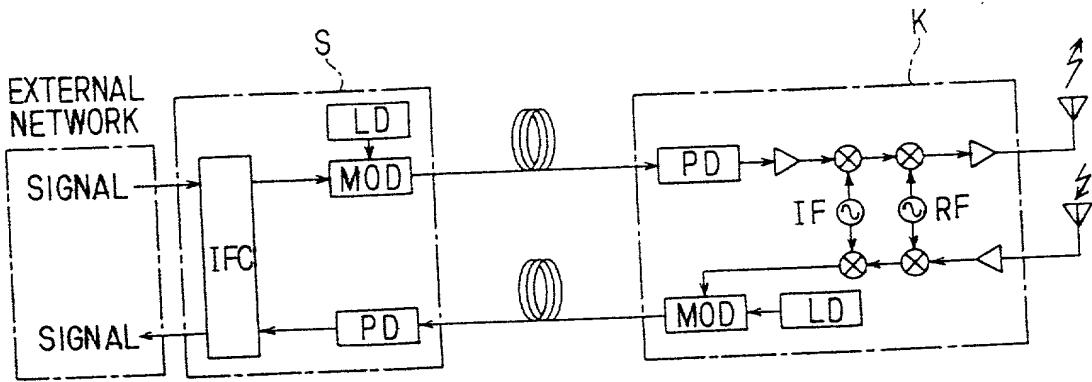
**FIG. I3A**



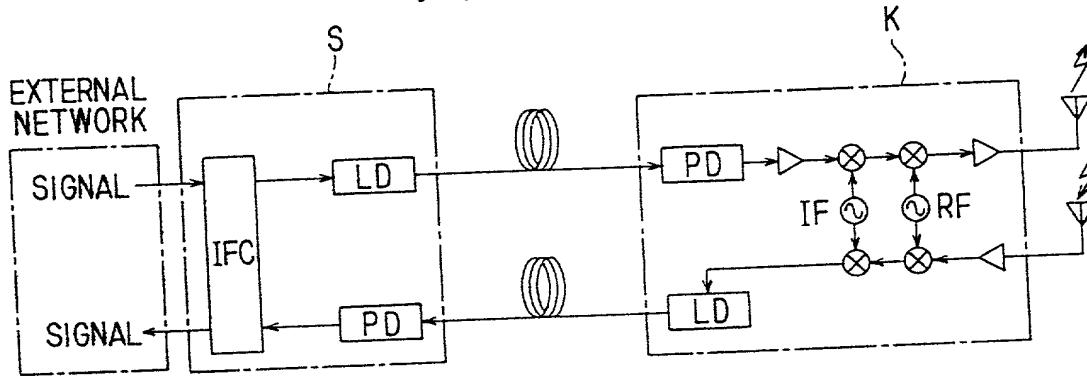
**FIG. I3B**



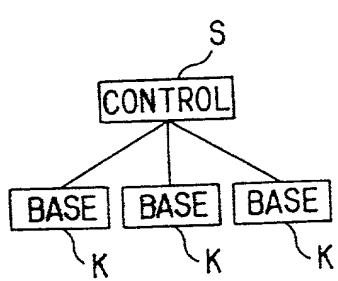
**FIG. 14A**



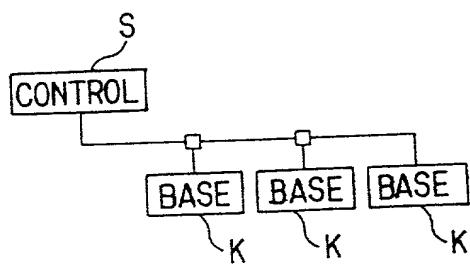
**FIG. 14B**



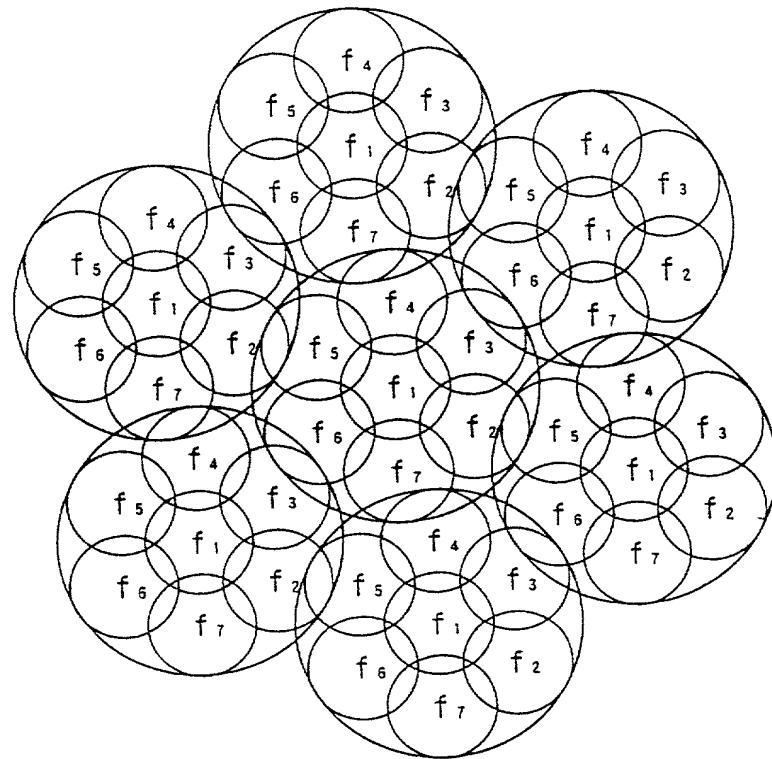
**FIG. 14C**



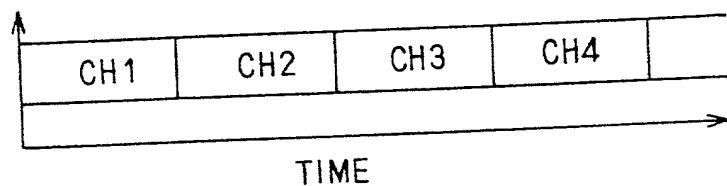
**FIG. 14D**



**FIG. 15A RELATED ART**



**FIG. 15B RELATED ART**



**FIG. 15C RELATED ART**

